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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/955,913	09/18/2001	Gary N. Lai	034560-078	9723
75	90 05/06/2005		EXAM	INER
ROBERT E. KREBS		DO, CHAT C		
P.O. BOX 6406	0 & PRIEST LLP 440		ART UNIT	PAPER NUMBER
SAN JOSE, CA 95164-0640			2193	
			DATE MAILED: 05/06/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. Applicant(s)		
	09/955,913	LAI ET AL.	
	Examiner	Art Unit	-
	Chat C. Do	2193	
The MAILING DATE of this communicati Reply	on appears on the cover sheet w	ith the correspondence address -	•

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.

 If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.

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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

- Failu Any	period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. It is to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). The reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any ed patent term adjustment. See 37 CFR 1.704(b).				
Status					
1)⊠	Responsive to communication(s) filed on <u>13 January 2005</u> .				
2a)⊠	This action is FINAL . 2b) This action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims				
4)🖂	Claim(s) <u>1-4 and 18</u> is/are pending in the application.				
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-4 and 18</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)[.]	Claim(s) are subject to restriction and/or election requirement.				
Applicati	ion Papers				
9)[The specification is objected to by the Examiner.				
10)	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority ι	under 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
	3. Copies of the certified copies of the priority documents have been received in this National Stage				
	application from the International Bureau (PCT Rule 17.2(a)).				
* 5	See the attached detailed Office action for a list of the certified copies not received.				
Attachmen	t(s)				
1) Notice	the of References Cited (PTO-892) 4) Interview Summary (PTO-413)				
	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) TNO(s)/Mail Date Statement(s) (PTO-1449 or PTO/SB/08) TNO(s)/Mail Date				



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DETAILED ACTION

1. This communication is responsive to Amendment filed 01/13/2005.

2. Claims 1-4 and 18 are pending in this application. Claims 1 and 18 are independent claims. In Amendment, claims 1-4 and 18 are amended; claims 5-17 and 19-48 are cancelled. This Office action is made final.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitations cited in claim 4 and 18 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-4 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Heidari-Bateni et al. (U.S. 6,618,434).

Re claim 1, Heidari-Bateni et al. disclose in Figures 7A-7D a reconfigurable chip (e.g. Figure 6 and col. 2 lines 45-58) including: a first and second multiplexers (e.g. 510C and 510D); and a multiplication block (e.g. 540A, 550A) including a first multiplication unit (e.g. 540A) and an adder unit (e.g. 550A) selectively connectable in different configurations (e.g. Figures 7A-7D and col. 3 lines 35-50), a first configuration coupling first and second inputs of the first multiplication unit to outputs of the first and second multiplexers to receive first and second operands (e.g. 510C and 510D route inputs to 540A), and a second configuration coupling first and second inputs of the adder unit respectively to the output of the first and second multiplexers to receive the first and second operands (e.g. 510C and 510D route inputs to 550A).

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Re claim 2, Heidari-Bateni et al. further disclose in Figures 7A-7D the first and second configurations are selected by an instruction supplied to the multiplication block (e.g. col. 3 lines 35-50).

Re claim 3, Heidari-Bateni et al. further disclose in Figures 7A-7D a second multiplication unit having first and second inputs coupled to outputs of the first and second multiplexers (e.g. 550D wherein the adder unit is 545).

Re claim 4, Heidari-Bateni et al. further disclose in Figures 7A-7D a third configuration with the adder unit having first and second inputs respectively coupled to outputs of the first and second multiplication units (e.g. 555D).

Re claim 18, Heidari-Bateni et al. disclose in Figure 7D a reconfigurable chip (e.g. Figure 6 and col. 2 lines 45-58) including: a multiplication block (e.g. 540D, 550D, 545) including first and second multiplexers (e.g. 510I and 510J), a multiplication unit (e.g. 540D) having first and second inputs, and first and second adder units (e.g. 545 and 550D), wherein a first configuration instruction to the multiplication block configures the multiplication unit to receive first and second operands from the first and second multiplexers (e.g. 510I and 510J route inputs to 540D) and provides a product of the operands at an output (e.g. output of 540D), and a second configuration instruction configures the first and second adder units to receive the first and second operands from the first and second multiplexers (e.g. 545 and 550D receive inputs from 510I and 510J) and provide a summed value of the operands (e.g. outputs of 545 and 550D).

Response to Amendment

6. The amendment filed 01/13/2005 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the limitations cited in claims 3-4 and claim 18. In particular, the configuration in claim 18 wherein there are two adder units connect to the same two multiplexers as cited in the claimed invention.

Applicant is required to cancel the new matter in the reply to this Office Action.

Response to Arguments

7. Applicant's arguments with respect to claims 1-4 and 18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The examiner can normally be reached on 7:00AM to 5:00PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Chat C Do Examiner Art Unit 2193

April 20, 2005

PRIMARY EXAMINER